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Pamela J. Morton

Attest



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United States Patent [19]

Gopal

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[54] PEPTIDE-MEDIATED GENE TRANSFER

[75] Inventor: T. Venkat Gopal, North Potomac, Md.

[73] Assignee: AMBA Biosciences LLC, Gaithersburg, Md.

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C12N 15/63[52] U.S. Cl. 435/172.1; 435/172.3;
435/240.2; 435/320.1; 935/55[58] Field of Search 435/172.1, 320.1,
435/240.2, 172.3; 935/55

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Primary Examiner—Douglas W. Robinson

Assistant Examiner—Thanda Wai

Attorney, Agent, or Firm—Foley & Lardner

[57]

ABSTRACT

A methodology that allows for highly efficient transfer and stable integration of DNA into both established eukaryotic cell lines and primary cells, including non-dividing cells such as human peripheral blood monocytes and macrophages, entails the use of a synthetic polypeptide comprised of a peptide domain which corresponds to a nuclear localization signal sequence and a DNA binding domain which is rich in basic amino acids, separated by a hinge region of neutral amino acid which prevents steric interference between the two domains.

14 Claims, N Drawings

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